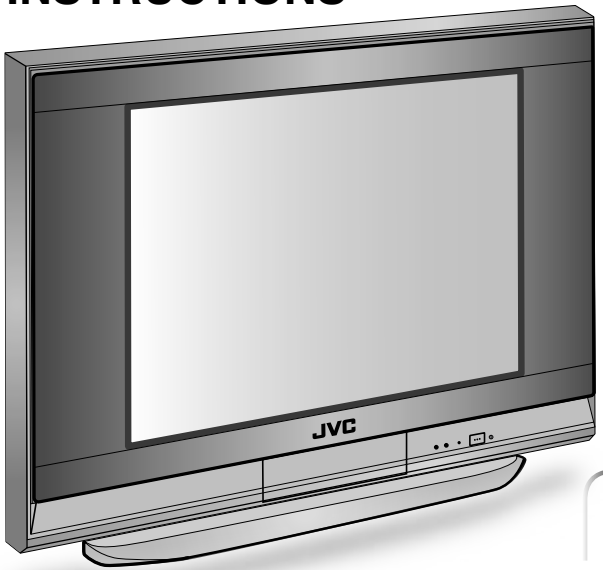
JVC

COLOR TELEVISION INSTRUCTIONS



This illustration shows AV-21ST19B.

The illustrations of AV-21ST19B is used in this instruction manual for explanation purpose. Your TV may not look exactly the same as illustrated.

AV-21QT19
AV-21RT19S
AV-21ST19B

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GGT0225-001B-H

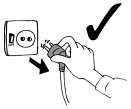
Thank you for buying this JVC color television.
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

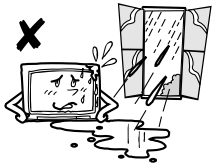
- Operate only from the power source indicated on the rear of the TV.

- Avoid damaging the power cord and main plug. When unplugging the TV, grasp the main plug. Do not pull on the power cord.
- This TV can be turned on/off power by connecting/ disconnecting the AC plug into AC outlet. While this TV is being installed, enough space should be reserved for connection/ disconnecting the AC plug into AC outlet by hand.

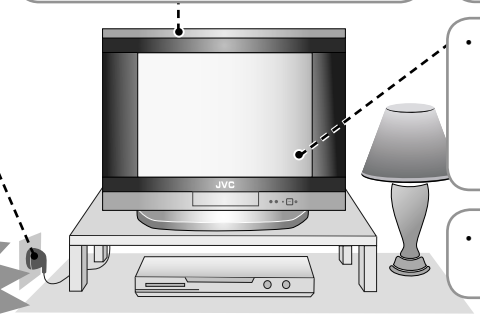


- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

- Do not allow objects or liquid into the cabinet openings.



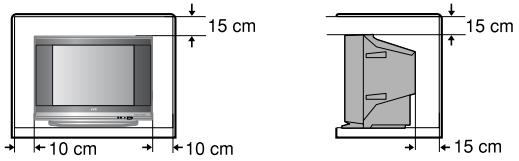
In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.



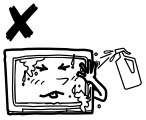
CAUTION

TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS TV.

- Never block or cover the ventilation openings.
- Never install the TV where good ventilation is unattainable.
- When installing this TV, leave spaces for ventilation around the TV of more than the minimum distances as shown.



- The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.



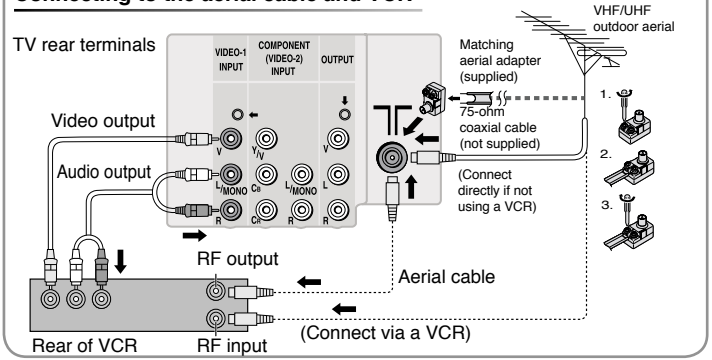
- Never listen to headphones at high volume!
  - It may damage your hearing.

Connections

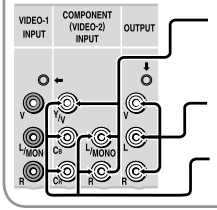
The illustration of AV-21ST19B is shown here for explanation purpose. Your TV may not look exactly the same as illustrated.

CAUTION Ensure to turn off all equipments including the TV before connecting the AC main plug to the AC outlet.

Connecting to the aerial cable and VCR



Connecting to the rear component/video input terminal and output terminal



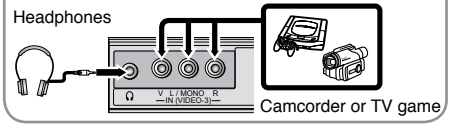
VCR (for playing)
DVD player (composite signals)

VCR (for recording)

DVD player (with component video signals input)

- When connecting to COMPONENT (VIDEO-2) input, depending on the connection, choose the appropriate video input using the menu (➡ page 9).

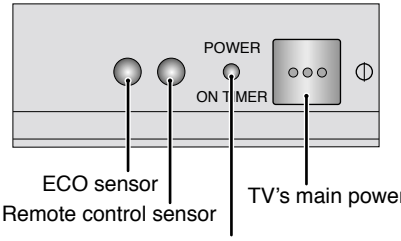
Connecting to the front video input terminal



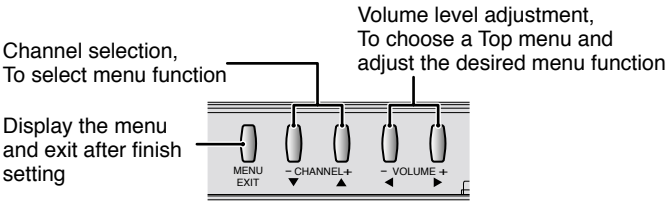
After all the connections have been made, insert the main plug to the AC outlet.

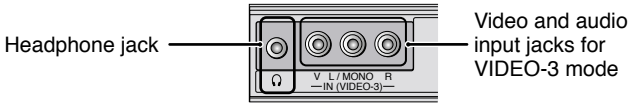
TV buttons and functions

The illustration of AV-21ST19B is shown here for explanation purpose. Your TV may not look exactly the same as illustrated.



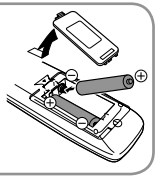
Power lamp - Indicates the TV's status.
No color: TV's main power is being turned off.
Red: TV's main power is turned on.
Blink: While the TV is in standby mode, ON TIMER function is in used.
While the TV is in turn on mode, OFF TIMER function is in used.


Volume level adjustment, To choose a Top menu and adjust the desired menu function
Channel selection, To select menu function
Display the menu and exit after finish setting
MENU EXIT
CHANNEL
VOLUME



Remote control buttons and basic functions

- Insert two batteries by following the ⊕ and ⊖ polarities and inserting the ⊖ end first.
- Use AA/R6/UM-3 dry cell batteries.
- If the remote control does not work properly, fit new batteries. The supplied batteries are for testing, not regular use.



WARNING:
Batteries shall not be exposed to excessive heat such as direct sunshine, fire or the like.

If this symbol is shown, it is only valid in the European Union.

- Display the programme or video terminal number.
- To return to the previous menu

RETURN PLUS function
Return to the frequently viewed channel.

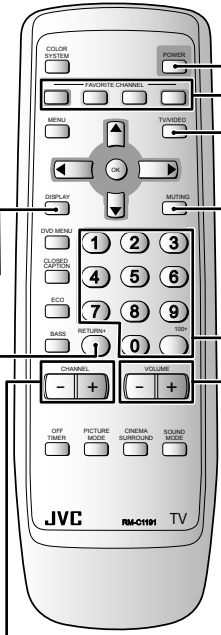
Choose the channel you want to programme

Press and hold → RETURN PLUS PROGRAMMED!

To cancel

Press and hold → RETURN PLUS CANCELED!

RETURN function
If you have not set or have cancelled the RETURN PLUS channel, this will return to the previously viewed channel.



Turn the TV on from standby and vice versa

Programme and recall 4 favourite channels
(color buttons: red, green, yellow, blue)

Choose the TV channel you wish to programme

→ PROGRAMMED! ■

Press and hold any button

Repeat to programme another favourite channel.

To recall the favourite channel, press the corresponding color button.

- When the TV is in MENU mode, the favourite channel function is not available.

TV or video terminal input selection, Exit from the menu

Turn the volume Off / On

Programme number selection
For three digits :

Adjust the volume level, Turn off Muting

Channel selection
Select the desired channel number.

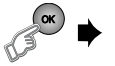
For Hyper Scan

Press and hold → PR changes without changing the picture. Once you stop pressing CHANNEL+ or CHANNEL– button, picture will change to the desired PR.

Initial Settings

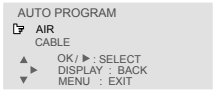
1. Turn on the TV.

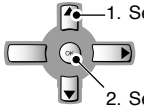
JVC logo appears.



or wait 15 seconds to run Setup Tour

2. Select AIR or CABLE.





3. Searching for the channels. (AUTO PROGRAM)

4. The channels received are registered.

To complete Setup Tour

• If you want to set undesired channels to be skipped, read the next column.

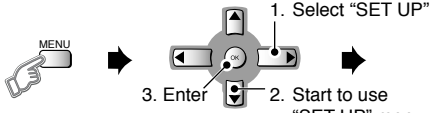
To restart Setup Tour after above setup has completed.

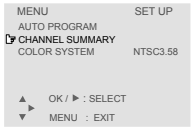
(While the cursor is pointing to PICTURE MODE and hold for 3 seconds)

Channel Summary

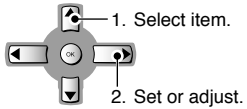
You can set undesired channels to be skipped.

1. Display “SET UP” menu.

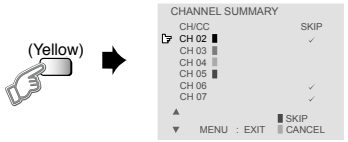




2. Select item.

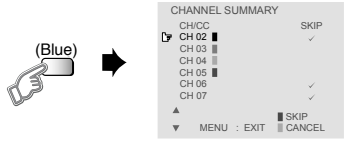


SKIP — **SKIP the channel.**



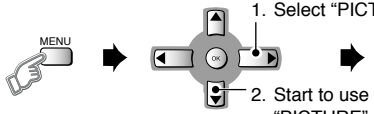
• The skip can be set to all channels of AIR (CH02-CH69) and CABLE (CC01-CC125).

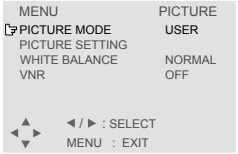
CANCEL — **CANCEL the skip channel.**



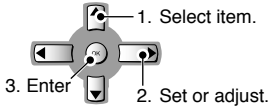
Picture Setting

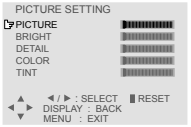
1. Display “PICTURE” menu.





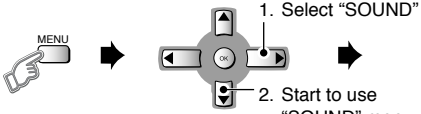
2. Select item and setting or adjust.

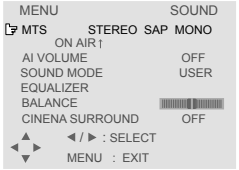


PICTURE MODE	You can choose the desired picture setting. USER : You can change the picture setting as you like. (PICTURE, BRIGHT, DETAIL, COLOR, TINT) VIVID : Heightens contrast and sharpness. SOFT : Softens contrast and sharpness. DETAIL : To sharpen the picture. (For DVD mode) CLEAR : To softens the picture. (For DVD mode)
PICTURE SETTING	You can adjust the desired picture setting when selecting USER in PICTURE MODE.  PICTURE : Lower ⟷ Higher BRIGHT : Darker ⟷ Brighter DETAIL : Softer ⟷ Sharper COLOR : Lighter ⟷ Deeper TINT : Reddish ⟷ Greenish • To return the setting to default, press the Blue button.
WHITE BALANCE When DVD THEATER STATUS set to ON, WHITE BALANCE is not available in VIDEO-2.	You can change the white balance of the picture to better match the type of video being viewed. NORMAL : Normal white balance. COOL : Bluish white. WARM : Reddish white.
VNR Only available in RF, VIDEO-1 and VIDEO-3.	Reduce the amount of noise in original picture. OFF : VNR is turned off. AUTO : Effect of VNR is automatically controlled. MIN : Effect of VNR becomes minimum level. MAX : Effect of VNR becomes maximum level.

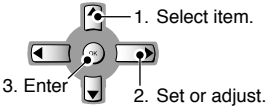
Sound Setting

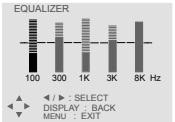
1. Display “SOUND” menu.





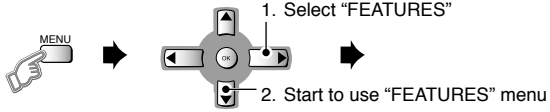
2. Select item and setting or adjust.

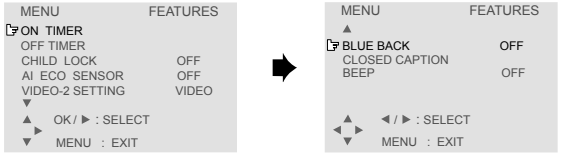


MTS	Select the stereo and SAP broadcasted programs. (STEREO : Stereo sound / SAP : Second Audio Programs / MONO : Monaural sound)
AI VOLUME	Prevent sudden increase or decrease of sound when changing channels. (ON / OFF)
SOUND MODE When SOUND MODE is set to other than USER, EQUALIZER function become unavailable.	You can choose the desired sound setting. USER : Change the sound setting as you like. Select USER and adjust the frequencies in EQUALIZER (100, 300, 1K, 3K, 8K Hz). MUSIC : Emphasize on music effect. CINEMA : Emphasize on movie sound. NEWS : Emphasize on vocal sound. DRAMA : Emphasize on drama sound. (For DVD mode)
EQUALIZER When CINEMA SURROUND set to ON, you cannot adjust EQUALIZER.	You can adjust the sound level of each frequencies when selecting USER mode in SOUND MODE.  Adjust high frequency will affect higher pitch sound and vice versa.
BALANCE	You can change the speaker balance. (Left Stronger ⟷ Right Stronger)
CINEMA SURROUND	You can enjoy an enhanced sound for wider audience. (ON / OFF)

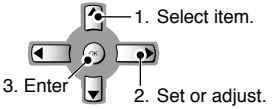
Useful Functions

1. Display “FEATURES” menu.





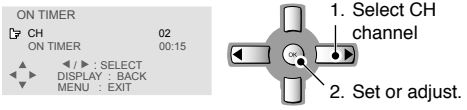
2. Select item and setting or adjust.



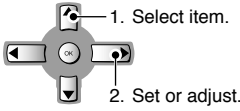
ON TIMER

TV to turn on automatically from standby mode at a set time.

1. Select CH channel that you want ot watch.



2. Set the ON TIMER to your desired period of time.

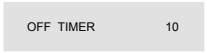


You can set the period of time to a maximum of 12 hours in 15-minute intervals. To off the ON TIMER, set ON TIMER to OFF.

Note : If TV is not in standby mode when ON TIMER is reach the setting time, this case is not available.

OFF TIMER

TV to turn off automatically to standby mode after a set time.



1. Select a time in minutes by press ◄ / ► button.

You can set the period of time to a maximum of 120 minutes in 10 minutes intervals.

Note : When the remaining elapse time is one minute, “GOOD NIGHT!” appears on the screen.

CHILD LOCK

Disables the front control buttons of the TV. (ON / OFF)

AI ECO SENSOR

You can automatically adjust TV screen contrast according to the brightness of your room to suitable level for a better eye care. (OFF / MODE-1 / MODE-2 / DISPLAY)

- You can operate the ECO function by press ECO button.
- Only available in 21S and 21R series.

ECO MODE

You can adjust TV screen contrast according to the brightness of your room to suitable level for a better eye care. (OFF / ECO-1 / ECO-2)

- You can operate the ECO function by press ECO button.
- Only available in 21Q series.

BLUE BACK

Display a blue screen and mute the sound when the signal is weak or absent. (ON / OFF)

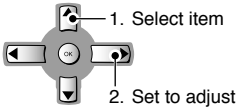
Useful Functions (continued)

CLOSED CAPTION

1. You can view closed caption or text information.

➡ OFF / CLOSED CAPTION / TEXT

2. Select the desired caption or text channel.



CAPTION : Select the desired caption.
(CC1 / CC2 / CC3 / CC4)
TEXT : Select the desired text channel.
(T1 / T2 / T3 / T4)

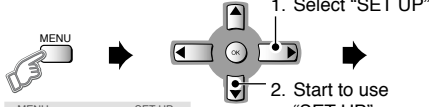
BEEP

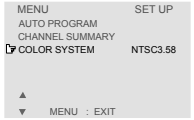
You can use the BEEP function to alert you during AUTO SIGNAL DETECT, AI ECO SENSOR Detect, Stereo Detect,
ON TIMER / OFF TIMER operations and when some buttons on the remote control are pressed.
(ON / OFF)

COLOR SYSTEM

You can select the appropriate color system when the picture is not clear or no color appears.
(AUTO / PAL / SECAM / NTSC3.58 / NTSC4.43)

1. Display “SET UP” menu.





- For TV mode, Color system fix to NTSC3.58 only.
- You can operate the COLOR SYSTEM function by press COLOR SYSTEM button.

Color system in your country or region.

Area	Country or Region	System
Asia, Middle East	Bahrain, Kuwait, Oman, Qatar, United Arab Emirates, Yemen, Indonesia, Malaysia, Singapore, Thailand, India, China, Vietnam, Hong Kong, etc.	PAL
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM
	Philippines, Taiwan, Myanmar, etc.	NTSC
Europe	Russia, etc.	SECAM
	Czech Republic, Poland, Germany, Holland, Belgium, UK, etc.	PAL
Oceania	Australia, New Zealand, etc.	PAL
Africa	Republic of South Africa, Nigeria, etc.	PAL
	Egypt, Morocco, etc.	SECAM

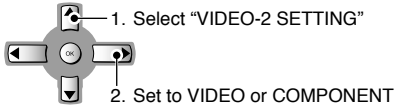
Watching Video or DVDs

VIDEO-2 SETTING

Switch between video and component signal (VIDEO / COMPONENT)

1. Select “FEATURES” menu.

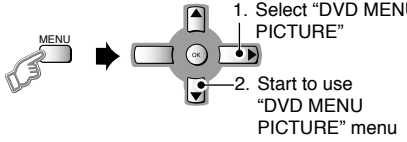
2. Select “VIDEO-2 SETTING”. Then set to VIDEO or COMPONENT.



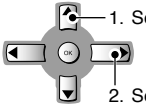
Function for watching DVDs

Available for component signal only.

1. Select “DVD MENU PICTURE” menu.



2. Select item and setting.



- You can operate the DVD function by press DVD MENU button.

AUTO SIGNAL DETECT Automatically change the input mode to Video-2 when the DVD input signal is detected. Automatically change the input mode to RF previous input mode when the DVD input signal is not detected. (ON / OFF)

DVD THEATER STATUS Enjoy an enhanced picture quality for movie playback in a dark room, like watching a movie in the theater. (ON / OFF)

- When you set DVD THEATER STATUS set to ON, AI ECO SENSOR / ECO MODE and WHITE BALANCE adjustment become unavailable. Only available in VIDEO-2 mode.

Troubleshooting

If a problem occurs when you are using the TV, check the below troubleshooting guide before calling for repair.

No picture, no sound	Page
Deactivate the BLUE BACK function if it is turned on.	P. 7
Snowy picture	
Check the aerial cable and TV connections.	P. 3
Stripes appear on the picture	
Interference caused by devices such as an amplifier, personal computer, or a hair drier. Move it away from your TV.	--
Double-pictures (ghosting) occur	
Interference occurs caused by signal reflecting from mountains or building. Try to adjust the aerial's direction or use another antenna.	--
Poor picture	
Choose the appropriate color system. Refer to "COLOR SYSTEM".	P. 8
Adjust the COLOR or BRIGHT setting. Refer to "PICTURE SETTING".	P. 6
White and bright still image look as if it was colored	
Inevitable phenomenon due to the nature of the picture tube. This is not a malfunction.	--
Top of the image from software products or video tape is distorted	
Due to the condition of the video signal, the image was not properly recorded. This is not a malfunction.	--
Stereo or SAP sound is unclear	
TV channel reception is poor. Change the stereo/SAP mode to mono sound.	P. 6
Cannot operate the remote control	
The batteries may be exhausted. Replace with new batteries. Ensure that you are operating the remote control at less than seven meters from the front of your TV.	P. 4
Cannot operate the menus	
Press TV/VIDEO button to return to TV mode and try operating the menus.	--
Cannot operate the front control buttons	
Deactivate the CHILD LOCK function if it is turned on.	P. 7

Color patches appear at the corner of the screen	Page
This maybe due to magnetized device such as a speaker placed near to your TV. Move it away from your TV. Alternatively, you can also use the magnetic shielded speaker.	--
Image takes a short period to be displayed	
Image required time to stabilize before display. This is not a malfunction.	--
TV may emit crackling sound	
This is due to a sudden change in temperature and it is not a malfunction. If the crackling sound is too frequent, request your service technician for inspection.	--
Feel a slight electric shock when touching the TV screen	
This is due to the static electricity of the picture tube and it will not harm the human body. This is not a malfunction.	--
AUTO SIGNAL DETECT does not work	
Set the AUTO SIGNAL DETECT function to ON. Turn the VCR or DVD Player off and on again. Check that the video cable connection on VIDEO-2 is properly connected.	P. 9 -- --
Suddenly, the TV input changes to VIDEO-2	
Check whether the AUTO SIGNAL DETECT function is on or off. AUTO SIGNAL DETECT function may work when you operate the VCR or DVD player even if you do not make it to playback.	P. 9 --
AUTO SIGNAL DETECT does not work correctly	
Check the video cable connection. Some VCR or DVD player may output the video signal discontinuously. If this happens, AUTO SIGNAL DETECT function cannot work correctly.	--

Specification

TV RF systems		M
Color systems		TV mode : NTSC 3.58 MHz VIDEO mode : PAL, SECAM, NTSC 3.58 MHz, NTSC 4.43 MHz
Receiving channels		VHF low channel (VL), VHF high channel (VH), UHF channel (U) Receives cable channels in mid band, super band and hyper band.
Power requirements		AC 110 to 240 V, 50 Hz / 60 Hz
External input / output	**VIDEO-1**	VIDEO input, AUDIO L/R input
	VIDEO-2/COMPONENT	VIDEO input, AUDIO L/R input, COMPONENT VIDEO ($Y/C_B/C_R$) input
	VIDEO-3	VIDEO input, AUDIO L/R input
	OUTPUT	VIDEO output, AUDIO L/R output
	Headphone jack	Stereo mini jack (3.5 mm diameter)
Sound-multiplex systems		MTS (Multi-channel Television Sound)
Viewing Screen Size (Visible area)		AV-21QT19 508.0 mm AV-21RT19S 508.0 mm AV-21ST19B 508.0 mm

Design and specifications subject to change without notice.

JVC

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0908SCT-NF-MT